



## PATENT ABSTRACTS OF JAPAN

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(71) Applicant: MATSUSHITA ELECTRIC WORKS LTD

(72) Inventor: HAYASHIDA NOBUHIRO  
UETSUKI TADAO

## (54) ELECTRODE FOR LOW PRESSURE DISCHARGE LAMP AND MANUFACTURE THEREOF

## (57) Abstract:

**PURPOSE:** To ensure a long flashing life even in lighting with a high frequency lighting device with no preheating time control function by connecting a main electrode and an auxiliary electrode in series, and applying high frequency voltage and passing preheating current at the same time at starting.

**CONSTITUTION:** A main electrode 1 and an auxiliary electrode 6 are connected in series, and at starting, voltage is applied across the electrodes and preheating current is supplied to the electrodes at the same time to heat them, and thermoelectrons are emitted to light a discharge lamp. Even when the lamp is lit with a high frequency lighting device having no preheating time control function, when preheating current is supplied to the electrode 1 and the electrode 6, the electrode 6 has smaller heat capacity than the electrode 1, quickly increases temperature than the electrode 1, and thermoelectrons are emitted to start lighting, and

ion shock to the cathode is remarkably decreased in starting. Even when the lamp is lit with the high frequency lighting device with no preheating time control function, long flashing life is ensured, the electrode 6 is formed by only changing the diameter of a filament, and manufacture is made easy.

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